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Tracheal invasion by Thyroid nodule in Thyroidectomy

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Case Presentation:

was reintubated, the incision was re-opened and the tracheal flap extubation, an air leak at the surgical site was noted. The patient uneventful induction and intubation, surgical dissection revealed 46yo female ASA 2 presented for total thyroidectomy and necl was revised to prevent tracheal leaking flap and surgery concluded uneventfully. Following deep tracheal ring. The tracheal defect was fixed with a strap muscle recurrent laryngeal nerve as well as invasion through the first invasion of a thyroid nodule into the anterior branch of the dissection secondary to papillary thyroid carcinoma. After



Discussion:

approach to the difficult airway. of radiation, abnormal neck anatomy and airway masses and extubation. Additionally, a history of radiation potentially complicates a surgical Factors predicting difficult intubation in H&N surgery include history H&N cases, 2-4 times higher than mixed surgical populations. require particular attention to airway management during intubation intricately involved with head and neck surgery. These procedures tumor from the patient's neck, the practice of anesthesia has been Morton anesthetized a patient undergoing resection of a vascular From the very beginning of ether anesthesia when Dr. William Difficult intubation complicates 7-9 precent of

extubation. Other examples of extubation complications include (unintentionally suturing to ETT, and anesthesia related issues obstruction to removal of the ETT, surgical related patient related issues (subglottic stenosis or edema) causing physical (incomplete deflation of ETT cuff) This case demonstrated a unique and unexpected complication during

Differential Diagnosis for Thyroid Cancer

- Papillary Carcinoma- most common (80%)
- multiple lobes, good prognosis slow growing, differentiated, develops from follicular cells, lymph node spread. Can involve
- More aggressive, more metastasis (10%): inadequate dietary intake of iodine

Follicular Carcinoma- 2nd most common

- differentiated. More likely to spread C Cells (calcitonin), more aggressive, less Medullary Thryoid Carcinoma (4%)
- rapid spread. Median survival 3-7 months Anaplastic Carcinoma- (4%): Undifferentiated,

Early: Post Thyroidectomy Complications

- * Hemorrhage/Hematoma
- * Respiratory Obstruction * Recurrent Laryngeal Nerve injury
- Bilateral RLN vs hematoma
- Respiratory Obstruction
- Hypocalcemia
- * Infection
- * Thyroid/Parathyroid insufficiency

Anesthetic Management:

obstruction should be discussed with the surgical providers and, intubation attempts. intubation may be unsuccessful. Management of the airway Algorithm while additional resources are acquired for repeat should continue according to the ASA Difficult Airway assessing a potential difficult airway preoperatively. Depending knowledge to include imaging of the tumor is important for on the clinical circumstances and size of the mass, DL and In any case involving head and neck tumors, detailed applicable, preparation made for surgical airway The presence of potential airway

quickly identify and treat an airway issue on extubation. communication with the surgical team may be necessary obvious in this case. In other less obvious cases, close reintubation, if necessary. Identification of the airway leak was possible placement of a short-term conduit or bougie to aid return of consciousness. the decision for an awake extubation versus extubation before consideration regarding the criteria for extubation, starting with Following completion of the case, there should be careful ASA guidelines also recommend

Updated Report by the American Society of Anesthesiologists Task Force on Management of the Apfelbaum, J. et. al. (2013). "Practice Guidelines for Management of the Difficult Airway, An

Cavallone, L and Vannucci, A (2013): "Extubation of the Difficult Aiway and Extubation

from http://www.pbs.org/newshour/ Markel, H. (2013, October 16). The Painful Story Behind Modern Anesthesia. Retrieved

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